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UUU	UUU	EEE	TTT	PPP PPP	SSS	YYY	YYY
UUU	UUU	EEE	TTT	PPP PPP	SSS	YYY	YYY
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SATSSS38 Table of c	contents	SATS SYSTEM SERVICE TESTS SRESUME (SUCC 16-SEP-1984 00:52:14 VAX/VMS Macro V04-00	Page	0
(1) (1) (1) (1) (1)	55 106 145 236 329 422 534	DECLARATIONS CONDITION TABLES TM_SETUP, TM_CLEANUP CONDITION SUBROUTINES - SETUP AND CLEANUP FORM_CONDS VERIFY VFY_CLEANUP		

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SATS SYSTEM SERVICE TESTS \$RESUME (SUCC 16-SEP-1984 00:52:14 VAX/VMS Macro V04-00 Page 1 (1)

.TITLE SATSSS38 SATS SYSTEM SERVICE TESTS SRESUME (SUCC S.C.)

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: FACILITY: SYSTST (SATS SYSTEM SERVICE TESTS)

ABSTRACT:

THIS MODULE CONTAINS SUBROUTINES WHICH, WHEN LINKED WITH SUCCOMMON.OBJ, FORM TEST MODULE SATSSS38 TO TEST SUCCESSFUL OPERATION OF THE \$RESUME SYSTEM SERVICE. THE SERVICE IS INVOKED UNDER VARIOUS INPUT CONDITIONS WITH VARYING INPUT PARAMETERS. ONLY SUCCESSFUL STATUS CODES ARE EXPECTED IN THIS TEST MODULE. CORRECT OPERATION OF THE SERVICE FOR EACH OF ITS ISSUANCES IS VERIFIED BY CHECKING FOR AN SS\$ NORMAL STATUS CODE, EXPECTED RETURN ARGUMENTS AND EXPECTED FUNCTIONALITY PERFORMED.

ENVIRONMENT: USER MODE IMAGE; NEEDS CMKRNL PRIVILEGE, DYNAMICALLY ACQUIRES OTHER PRIVILEGES, AS NEEDED.

AUTHOR: THOMAS L. CAFARELLA,

CREATION DATE: AUG, 1977

MODIFIED BY:

VERSION 1.5 : 25-MAY-79
01 LDJ 10/11/79 Fixed bug caused by DIB\$K_LENGTH change ACG052.RNO mem

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SATS SYSTEM SERVICE TESTS \$RESUME (SUCC 16-SEP-1984 00:52:14 VAX/VMS Macro V04-00 Page 2 DECLARATIONS 5-SEP-1984 04:30:57 [UETPSY.SRC]SATSSS38.MAR;1

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.PROCESS HEADER OFFSETS
.PROCESS QUOTA CODES
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SATS SYSTEM SERVICE TESTS SRESUME (SUCC 16-SEP-1984 00:52:14 VAX/VMS Macro V04-00 DECLARATIONS 5-SEP-1984 04:30:57 [UETPSY.SRC]SATSSS38.MAR;1
  00000000
0000
0009
0019
0039
0039
0051
0065
0084
0089
0088
0098
0098
                                      PSECT RODATA, RD, NOWRT, NOEXE, LONG
TEST_MOD_NAME:: STRING C, <SATS$538> ; TEST MODULE NAME
TEST_MOD_NAME_D: STRING I, <SATS$538> ; TEST MODULE NAME DESCRIPTOR
MSG1_INP_CTL: STRING I, < SSRES!4ZW: CONDITIONS:>
                                ; FAO CTL STRING FOR MSG1 IN SUCCOMMON.MAR
                                      MGG3_ERR_CTL:: STRING 1,< *SSRES!4ZW: !AS>
                                                                                                ; FAO CTL STRING FOR MSG3 IN SUCCOMMON.MAR
I. <SATSSS38 CRE>; PROC, CLUSTER & MBX NAME FOR CREATED PROC
I. <SYSTST$RES:SATSUTO5.EXE>; IMAGE NAME FOR CREATED PROC
CPULM,O
BYTLM,512; BYTE LIMIT FOR BUFFERED I/O
FILLM,2; OPEN FILE COUNT LIMIT
PGFLQUOTA,10; PAGING FILE QUOTA
PRCLM,2; SUBPROCESS QUOTA
TQELM,3; TIMER QUEUE ENTRY QUOTA
LISTEND; DEFINES END OF LIST
                                       SUBJPRN:
IMAGNAM:
                                                                              STRING
                                       QUOTALIST:
                                                                               SQUOTA
                                                                               SQUOTA
                                                                               SQUOTA
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                                                                               SQUOTA
                                                                               SQUOTA
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00000000 00000000	00000 0000 8000 2000	91 92 93	PRIVMASK: MBXCHAN: MBXCHANINFO:	RWDATA, F .BLKQ .BLKL	RD, WRT, NOEXE, LONG 1	 ADDR OF PRIVILEGE MASK (IN PHD) CHAN. NO. FOR MAILBOX FOR CREATED PROCESS CHANNEL INFO RETURNED BY GETCHN
00000074 00000014 00000088 0000008C	000C 0010 0014 0088	95 96 97 98	MBXUNIT:	.LONG .ADDRESS .BLKB .BLKL	DIB\$K_LENGTH	CHANNEL INFO RETURNED BY GETCHN SAVE AREA FOR MAILBOX UNIT NUMBER
00000110 00000114 00000000 00000110 00000120	008C 010C 0110 0114 0118 011C	99 100 101 102 103 104	MBXBUFF: DEST_PIDADR: ZEROPID: SELFPID: CREPID: SUBJPID:	STRING BLKL BLKL LONG BLKL BLKL	0,120 1 0 1	 MAILBOX BUFFER FOR CREATED PROCESS DESTINATION PID ADDR, WRITTEN BY S.S. PID OF ZEROES PID OF THIS PROCESS PID OF CREATED PROCESS PID OF SUBJECT PROCESS (SELF OR OTHER)

```
SATS SYSTEM SERVICE TESTS $RESUME (SUCC 16-SEP-1984 00:52:14 VAX/VMS Macro V04-00 CONDITION TABLES 5-SEP-1984 04:30:57 [UETPSY.SRC]SATSSS38.MAR;1
                           106
107
108
109
110
               0120
0120
0120
0120
0120
0120
0120
016F
0177
0177
                                               .SBTTL CONDITION TABLES
                                               **** CONDITION TABLES FOR RESUME SYSTEM SERVICE ****
                                                            1, NOTARG, <PID ADDRESS>, -
<NOT SPECIFIED>, -
<SPECIFIED, NON-ZERO>, -
                                               COND
                                                               <SPECIFIED, ZERO>,-
                           114
115
116
117
118
119
00000000°
00000110°
                                                                   .ADDRESS
                                                                                      SUBJPID
                                                                                      ZEROPID
                                                                   . ADDRESS
                                               COND
                                                            2.NOTARG. <PROCESS NAME ADDRESS>,-
<SPECIFIED>,-
               0177
0177
01AD
01B1
                                                                <NOT SPECIFIED> .-
000000511
                                                                  .ADDRESS
                                                                                      SUBJPRN
0
00000000
                01B5
01B5
                                               COND
                                                            3, NOTARG, < PROCESS TYPE>,-
                                                               <SELF>,-
                                                                <SUBPROCESS>,-
                                                               <DETACHED, DIFFERENT GROUP>,-
<DETACHED, SAME GROUP, SAME MEMBER>,-
<DETACHED, SAME GROUP, DIFFERENT MEMBER>,-
                01B5
01B5
                01B5
01B5
024A
024E
0256
025A
025E
025F
FFFFFFF
                                                                  .LONG
                                                                                      *XFFFFFFFF : PSEUDO-UIC
00000000
00000256
0000025A
0000025E
                                                                   .LONG
                                                                                                           PSEUDO-UIC
                                                                                                          UIC
                                                                   .BLKL
                                                                                                          UIC
                                                                   .BLKL
                                                                                                           UIC
                                                                   .BLKL
                                               COND
                                                            4, NULL
                            140
                           141
142
143
                                               COND
                                                            5, NULL
         00000000
                                               .PSECT SATSSS38,RD,WRT,EXE
```

(1)

89

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SATS SYSTEM SERVICE TESTS SRESUME (SUCC 16-SEP-1984 00:52:14 VAX/VMS Macro V04-00 TM_SETUP, TM_CLEANUP 5-SEP-1984 04:30:57 [UETPSY.SRC]SATSSS38.MAR;1
SATSSS38
V04-000
                                                                                                                                                                                                                       (1)
                                                                                             $SETPRN_S TEST_MOD_NAME_D
SS_CHECK NORMAL
$WAKE_S SELFPID
SS_CHECK NORMAL
$HIBER_S
SS_CHECK NORMAL
                                                                                                                                                     SET PROCESS NAME
CHECK STATUS CODE RETURNED FROM SETPRN
GET MY PID
                                                                         2012304567890012345678
                                                                                                                                                     CHECK FOR NORMAL RETURN
                                                                                                                                                     UNDO ABOVE WAKE
CHECK FOR NORMAL RETURN
                                                                               THE FOLLOWING CODE ESTABLISHES UIC'S IN THE CONDITION 3 TABLE
                                                                                                          TO,20$,KRNL
a#$CH$GL_CURPCB,R9
PCB$L_UIC(R9),R9
FROM,20$
                                                                                                                                                  : KERNEL MODE TO ACCESS PCB
: GET CURRENT PCB ADDRESS
                                                                                             MODE
                               00000000°9F
                                                                                             MOVL
                                                                                                                                                  : PICK UP UIC FROM PCB
: ... AND GET BACK TO USER MODE
                                     00BC C9
                                                       DO
                                                                                             MOVL
                                                                                             MODE
                                                                                  R9 NOW CONTAINS "MY" UIC
                                                                                                          #2,R10 ; GET COND3 TABLE INDEX NUMBER INTO A REG #~X10000,R9,COND3_E[R10] ; PUT DIFF GROUP UIC INTO 3RD TABLE ELT
                                                                                             MOVZBL
ADDL3
                               00010000 8F
                                                      C1
                                                             015E
0164
0166
016E
0170
0179
                            0000024A'EF4A
                                                      D6
D0
D6
C1
                                              5A
59
5A
                                                                         INCL
                                                                                                                                                     POINT TO 4TH COND3 TABLE ELEMENT
                                                                                                                                                     PUT MY UIC INTO TABLE
POINT TO 5TH COND3 TABLE ELEMENT
PUT DIFF MEMBER UIC INTO THE TABLE
                                                                                                          R9 COND3_E[R10]
                   0000024A'EF4A
                                                                                             MOVL
                                                                                             INCL
                                                                                             ADDL3 #1,R9,COND3 E[R10] ; PUT DIFF MEMBER UIC INTO THE TABLE SCREMBX_S CHAN=MBXCHAN, LOGNAM=SUBJPRN, - ; GET MAILBOX FOR PROCESS MAXMSG=#120, PROMSK=#0, BUFQUO=#240
           0000024A'EF4A
                                      59
                                              01
                                                                                             SS_CHECK NORMAL
SGETCHN_S CHAN=MBXCHAN, -
PRIBUF=MBXCHANINFO
                                                             019E
01CC
                                                                                                                                                     CHECK NORMAL COMPLETION
                                                                                                                                                     GET CHAN INFO (UNIT NUMBER)
                                                              010
                                                                                            SS_CHECK_NORMAL ; CHECK_NORMAL COMPLETION MOVZWL MBXCHANINFO+8+DIB$W_UNIT, MBXUNIT ; SAVE MAILBOX UNIT NUMBER ; RETURN TO MAIN ROUTINE
                                                             01E6
0214
021F
        00000088'EF
                                                      3C
05
                               00000020'EF
                                                             0220
                                                                               TM_CLEANUP::
                                                                                             SDELMBX_S MBXCHAN
BSBW MOD_MSG_PRINT
                                                                                                                                                     DELETE TERMINATION MAILBOX
                                                      30
                                                             022E
0231
                                           FDCF '
                                                                                                                                                     PRINT TEST MODULE END MSG
                                                                                             RSB
                                                                                                                                                     RETURN TO MAIN ROUTINE
```

```
2 236 .SBTTL CONDITION SUBROUTINES - SETUP AND CLEANUP
2 237 :++
2 238 : FUNCTIONAL DESCRIPTION:
2 239 :
```

CONDX AND CONDX CLEANUP ARE SUBROUTINES WHICH ARE EXECUTED BEFORE AND AFTER THE VERIFY SUBROUTINE, RESPECTIVELY, WHENEVER A NEW CONDITION X VALUE IS SELECTED (SEE FUNCTIONAL DESCRIPTION OF SUCCOMMON ROUTINE IN SUCCOMMON.MAR). ANY SETUP FUNCTION PARTICULAR TO THE CONDITION X TABLE IS INCLUDED IN THE CONDX SUBROUTINE AND CLEANED UP, IF NECESSARY, IN THE CONDX CLEANUP SUBROUTINE. THIS INCLUDES, ESPECIALLY, CODE TO DETECT CONFLICTS AMONG CURRENT ENTRIES IN TWO OR MORE CONDITION TABLES. IF A CONFLICT IS DETECTED, A NON-ZERO VALUE IS STORED INTO CONFLICT, WHICH CAUSES THE CALLING ROUTINE (SUCCOMMON) TO SKIP THE CURRENT ENTRY IN THE CONDITION X TABLE.

CALLING SEQUENCE:

BSBW CONDX BSBW CONDX_CLEANUP WHERE X = 1,2,3,4,5

INPUT PARAMETERS:

CONFLICT = 0

IMPLICIT INPUTS:

R2.3.4.5.6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.

OUTPUT PARAMETERS:

CONFLICT SET TO NON-ZERO IF COND TABLE CONFLICT DETECTED.

IMPLICIT OUTPUTS:

R2,3,4,5,6 PRESERVED

COMPLETION CODES:

NONE

SIDE EFFECTS:

NONE

05 0232 285 COND1::
05 0232 286 RSB
0233 287 COND1_CLEANUP::
05 0233 288 COND2::
05 0234 289 COND2::
05 0234 290 RSB
0235 291 COND2_CLEANUP::
05 0235 292 RSB

; RETURN TO MAIN ROUTINE

; RETURN TO MAIN ROUTINE

; RETURN TO MAIN ROUTINE

; RETURN TO MAIN ROUTINE

SATSSS38 V04-000	SATS SY CONDITI	M 14 YSTEM SERVICE TESTS \$RESUME (SUCC 16-SEP-1984 00:52:14 VAX/VMS Macro V04-00 Page 9 ION SUBROUTINES - SETUP AND CLEANU 5-SEP-1984 04:30:57 [UETPSY.SRC]SATSSS38.MAR;1	,
0000016B'EF42 000001 000001AD 02	0'EF43 D5 02 07 13 02	236 294 CMPL #SUBJPID.COND1_E[R2] ; NON-ZERO PID SPECIFIED ? 242 295 BEQLU 10\$; YES PROCESS IS "OTHER" 244 296 TSTL COND2_E[R3] ; IS PROCESS NAME SPECIFIED ? 248 297 BEQL 5\$; NO SUBJECT PROCESS IS "SELF" 240 298 CMPL R4.#2 ; DOES CONDITION 3 SPECIFY DIFFERENT GROUP 250 299 BEQL 20\$; YES PROCESS NAME FOR DIFF GROUP IS CON 252 300 BRB 10\$; NO MAKE SURE COND 3 SPECIFIES "OTHER" 254 302 ;	? IF
0000024A'EF44 000000	000'EF D1 02 1B 13 02 0E 11 02	254 303; PROCESS IS "SELF" 254 304; 254 305	IT
0000024A'EF44 000000	00'EF D1 02 0B 12 02	264 311 ; 264 312 CMPL ONES,COND3_E[R4] ; DOES CONDITION 3 SPECIFY "SELF" ? 270 313 BNEQU COND3X ; NO THEN ALL 3 CONDITIONS ARE CONSISTEN	IT
0000000°EF 000000	05 02 05 02 05 02 05 02 05 02	314 20\$: 272 315 270 316 270 316 270 317 271 317 272 318 273 317 274 318 275 318 276 319 277 319 277 319 278 318 278 319 279 319 279 310 270 317 270 317 270 317 271 318 271 318 272 273 273 274 275 319 276 319 277 320 277 320 277 321 280 322 280 322 280 322 281 324 281 325 281 325 282 327 282 326 283 327 284 20\$: 285 210 286 210 287 210 288	

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SATS SYSTEM SERVICE TESTS $RESUME (SUCC 16-SEP-1984 00:52:14 FORM_CONDS 5-SEP-1984 04:30:57
SATSSS38
V04-000
                                                                                                                                                                      VAX/VMS Macro V04-00
[UETPSY.SRC]SATSSS38.MAR;1
                                                                                                  .SBTTL FORM_CONDS
                                                                                      FUNCTIONAL DESCRIPTION:
                                                                                                                FORM_CONDS FORMATS AND PRINTS INFORMATION ABOUT
                                                                                         THE CURRENT ELEMENT IN EACH OF THE CONDITION TABLES.
                                                                                       CALLING SEQUENCE:
                                                                                                  BSBW FORM_CONDS
                                                                                       INPUT PARAMETERS:
                                                                                                  NONE
                                                                                       IMPLICIT INPUTS:
                                                                                                 R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.

FOR X = 1,2,3,4,5:

CONDX_T - TITLE TEXT FOR CONDX TABLE

CONDX_TAB - ELEMENT TEXT FOR CONDX TABLE

CONDX_C - CONTEXT OF THE CONDX TABLE

CONDX_E - DATA ELEMENTS OF THE CONDX TABLE
                                                                                       OUTPUT PARAMETERS:
                                                                                                  NONE
                                                                                       IMPLICIT OUTPUTS:
                                                                                                  NONE
                                                                                       COMPLETION CODES:
                                                                                                  NONE
                                                                                       SIDE EFFECTS:
                                                                                                  NONE
                                                                                    FORM_CONDS::
                                                                                                               MSG1_INP_CTL, FAO_LEN, FAO_DESC, TESTNUM
                                                                                                  $FAO_S
                                                                                                                                                             FORMAT CONDITIONS HEADER MSG
                                             FD5B'
                                                                                                                                                            ... AND PRINT IT
IS CONDITION 1 NULL ?
                                                         30
91
12
31
                                                                                                                OUTPUT_MSG
#COND1_C,#NULL
                                                                                                  BSBW
                                                                             378
379
380
381
382
383
384
385
                                                                                                  CMPB
                                                                02A8
02AA
02AD
02AD
02B8
                                                                                                               10$
                                                                                                                                                             NO -- CONTINUE
                                                                                                  BNEQU
                                                                                                               FORM_CONDSX
                                             00BF
                                                                                                  BRW
                                                                                                                                                          : YES -- SUBROUTINE IS FINISHED
                                                                                    10$:
                                                                                                  MOVAL COND1_T,MSG_A : SAVE ADDRESS OF CONDITION 1 TITLE FOR FAO MOVL COND1_TABERZ],MSG_B : SAVE ADDR OF COND 1 CURR TEXT ELT FOR FAO MOVB #CONDT_C,MSG_CTXT : SAVE CONDITION 1 CONTEXT FOR FAO MOV_VAL COND1_C,CONDT_EER2],MSG_DATA1 : GIVE COND 1 DATA VALUE TO FAO
     00000000'EF
                        EF 00000120'EF 00000000'EF 00
                                                         DE DO 90
```

```
SATS SYSTEM SERVICE TESTS SRESUME (SUCC 16-SEP-1984 00:52:14 VAX/VMS Macro V04-00 FORM_CONDS S-SEP-1984 04:30:57 [UETPSY.SRC]SATSSS38.MAR;1
SATSSS38
V04-000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (1)
                                                                                                                                                                                                                                                    WRITE_MSG2
#CONDZ_C,#NULL
20$
                                                                                                                             30
                                                                                                                                                                                                                                                                                                                                                ; FORMAT AND WRITE CONDITION 1 MSG
; IS CONDITION 2 NULL ?
; NO -- CONTINUE
                                                                                                   FD32'
                                                                                                          00
                                                                                                                                                                                                                        CMPB
                                                                                                                                                                          388
389
390
391
393
                                                                                                                              12
                                                                                                                                                                                                                       BNEQU
                                                                                                                                                                                                                                                     FORM_CONDSX
                                                                                                    0096
                                                                                                                                                                                                                       BRW
                                                                                                                                                                                                                                                                                                                                                       YES -- SUBROUTINE IS FINISHED
                                                                                                                                                                                       20$:
                                                                                                                                                                                                                                                   COND2_T,MSG_A
COND2_TABER3],MSG_B
#COND2_C,MSG_CTXT
SAVE ADDR OF COND 2 CURR TEXT ELT FOR FAO
COND2_C,COND2_EER3],MSG_DATA1 : GIVE COND 2 DATA VALUE TO FAO
WRITE_MSG2
#COND3_C,#NULL
SOS : SOURCE CONDITION 2 MSG
#COND3_C,#NULL
SOS : NO -- CONTINUE

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**CON
                                                                                                                              DE 00
                                                            00000177'EF
0000018D'EF43
                   00000000'EF
                                                                                                                                                                                                                        MOVAL
           00000000'EF
                                                                                                                                                                                                                        MOVL
                                                      00000000'EF
                                                                                                                                                                                                                        MOVB
                                                                                                                                                                          394
395
396
397
                                                                                                                                                                                                                      MOV VAL
                                                                                                                              30
                                                                                                   FD09'
                                                                                                           00
                                                                                                                                                                                                                        CMPB
                                                                                                                              12
                                                                                                                                                                                                                       BNEQU
                                                                                                                                                                         398
399 30$:
                                                                                                                                                                                                                                                     FORM_CONDSX
                                                                                                    006D
                                                                                                                                                                                                                                                                                                                                                       YES -- SUBROUTINE IS FINISHED
                                                                                                                                                                                                                       BRW
                                                                                                                                                                                                                   000001B5'EF
000001C3'EF44
                                                                                                                              DE 00 90
                   00000000'EF
                                                                                                                                                                         400
401
402
403
404
406
407
409
410
           00000000'EF
                                                      00000000'EF
                                                                                                                                              0316
031D
                                                                                                                              30
91
13
                                                                                                                              DE
DO
90
                                                             0000025E'EF
                   00000000'EF
           00000000'EF
                                                      00000000'EF
                                                                                                                              30
91
13
                                                                                                   FCBA
                                                     EF 0000025F'EF
0000025F'EF46
00000000'EF 14
                                                                                                                                              034B
0356
0362
0369
                                                                                                                              DE
DO
90
                                                                                                                                                                         414
                   00000000°EF
           00000000°EF
                                                                                                                                                                         416
                                                                                                                                                                         418
                                                                                                                               30
                                                                                                   FC94'
                                                                                                                                              0369
                                                                                                                                              036C
                                                                                                                                                                                       FORM_CONDSX:
                                                                                                                               05
                                                                                                                                              036C
                                                                                                                                                                                                                       RSB
                                                                                                                                                                                                                                                                                                                                                 : RETURN TO CALLER
```

VO

036D 036D 036D 036D 036D 036D 036D 036D 036D 036D 036D 036D 036D 445012334567890 4455454567890 036D 036D 036D 036D 036D 036D 036D 036D 036D 036D 036D 036D 036D 46123466466746674773 036D 036D 036D 036D 036D 036D 036D 474 475 476 477

036D

478

.SBTTL VERIFY

FUNCTIONAL DESCRIPTION:

VERIFY IS CALLED ONCE FOR EACH COMBINATION OF CONDITION TABLE VALUES (AS DETERMINED BY THE INDEX REGISTERS R2,3,4,5,6 FOR COND TABLES 1,2,3,4,5, RESPECTIVELY). VERIFY ESTABLISHES THE CONDITIONS SPECIFIED BY THE COND TABLES AND ISSUES THE SUBJECT SYSTEM SERVICE (\$RESUME). THEN, THE SUCCESSFUL OPERATION OF THE SERVICE IS VERIFIED BY EXAMINING THE STATUS CODE RETURNED, THE VALUES FOR RETURN ARGUMENTS AND THE FUNCTIONALITY PERFORMED. THE EXAMINATIONS TAKE THE FORM OF COMPARISONS AGAINST EXPECTED VALUES. ANY FAILING COMPARISON CAUSES AN ERR EXIT MACRO TO BE EXECUTED (EITHER DIRECTLY, OR INDIRECTLY, THROUGH THE SS CHECK MACRO); ERR EXIT SETS EFLAG TO NON-ZERO, PRINTS ERROR MESSAGES AND CAUSES AN IMMEDIATE RSB TO CALLER. WHEN ERR EXIT IS EXECUTED, FURTHER CALLS TO VERIFY ARE SUPPRESSED, AND, AFTER EXECUTING CLEANUP SUBROUTINES, THE IMAGE EXITS.

CALLING SEQUENCE:

BSBW VERIFY

INPUT PARAMETERS:

NONE

IMPLICIT INPUTS:

R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.

FOR X = 1,2,3,4,5:

CONDX E - ADDRESS OF TABLE OF DATA VALUES FOR CONDX
TABLE. IF THE CONTEXT OF TABLE X IS A SYSTEM SERVICE
ARGUMENT, THE ARGUMENT NAME MAY BE USED AS A SYNONYM FOR CONDX_E.

OUTPUT PARAMETERS:

NONE

IMPLICIT OUTPUTS:

VERIFY HAS NO OUTPUT. SINCE ITS PURPOSE IS TO TEST FOR ERRORS, IT MERELY RETURNS TO CALLER NORMALLY AFTER THE TESTS, PROVIDING ALL WERE SUCCESSFUL; IF AN ERROR IS DISCOVERED, RETURN IS VIA AN ERR_EXIT OR SS_CHECK MACRO, BOTH OF WHICH DOCUMENT DETECTED ERRORS.

COMPLETION CODES:

EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.

SIDE EFFECTS:

SS_CHECK AND ERR_EXIT MACROS CAUSE PREMATURE EXIT (VIA RSB) IF ERROR ENCOUNTERED.

SATSSS38 V04-000		SATS	SYSTEM SER	VICE TES	TS SRES	D 15 UME (SUCC 16-SEP-1984 00: 5-SEP-1984 04:	52:14 VAX/VMS Macro V04-00 Page 13 30:57 [UETPSY.SRC]SATSSS38.MAR;1 (1)
			036D 479 036D 480 036D 481 036D 482	;			
	00000000°EF 03 FF0B	95 13 30	036D 483 036D 484 0373 485 0375 486	VERIFY:	TSTB BEQL BSBW	CFLAG 5\$ FORM_CONDS	: SHOULD CONDITIONS BE PRINTED ? : NO CONTINUE : YES FMT & PRINT ALL CONDS FOR THIS T.C.
0000011C'EF 0000024A'EF44	00000114'EF 00000110'EF 00000000'EF 03 0074	D0 D4 D1 12 31	036D 489 036D 481 036D 483 036D 484 036D 485 0373 486 0375 486 0378 488 0378 489 0398 491 0398 495 0398 495 0398 496 0398 496 0398 497 0398 498 0398 499	5\$:	MOVL CLRL CMPL BNEQU BRW	SELFPID, SUBJPID ZEROPID ONES, COND3_E[R4] 7\$ 10\$: ASSUME THE SUBJECT PID IS SELF : CLEAR ZERO PID : IS PROCESS FOR THIS TEST CASE SELF ? : NO CONTINUE : YES DON'T CREATE A PROCESS
			039A 494 039A 495 039A 496 0395 497	7\$:		_S PIDADR=CREPID, PRCNAM= UIC=COND3_E[R4], IMAGE MBXUNT=MBXUNIT, QUOTA= K NORMAL	SUBJPRN, - =IMAGNAM, - QUOTALIST ; CREATE THE SUBJECT PROCESS ; AND MAKE SURE IT CREATED OK ; MAKE THE SUBJCT PID = THE ONE JUST CREATED
0000011C'EF	00000118'EF	DO	0403 499 040E 500	10\$:	MOVL	CREPID, SUBJPID	: MAKE THE SUBJET PID = THE ONE JUST CREATED
0000010C'EF	0000016B'EF42 000001AD'EF43	D0	040E 501 041A 502 0422 503		MOVL	COND1_E[R2],DEST_PIDADR COND2_E[R3],R9	; GET PID ADDRESS OUT OF TABLE ; PRCNAM ADDR INTO REG FOR INDIRECT REF'RNCE
			0422 503 0422 504	*****	* SYSTEM		E SUBJECT OF THIS TEST CASE *****
0000000°EF	00000'8F 50 00000000'8F 00000'EF 50	D1 13 D0 D0	0422 504 0422 505 0422 506 0431 507 0438 508 043A 509 0445 510		CMPL BEQLU MOVL MOVL	S PIDADR=aDEST_PIDADR, F RO,#SS\$_NORMAL 18\$ #SS\$_NORMAL,EXPV RO,RECV T LONG, <incorrect status<="" td=""><td>PRCNAM=(R9) ; CODE RECEIVED = CODE EXPECTED ? ; YES CONTINUE ; NO LOAD UP EXPECTED AND RECEIVED VALUES THEN EXIT CODE RETURNED FROM RESUME></td></incorrect>	PRCNAM=(R9) ; CODE RECEIVED = CODE EXPECTED ? ; YES CONTINUE ; NO LOAD UP EXPECTED AND RECEIVED VALUES THEN EXIT CODE RETURNED FROM RESUME>
0000010C'FF 00000000'EF 00000000'EF	0000010C'EF 0000011C'EF 5B 0000011C'EF 0000010C'FF	D5 13 D1 13 D0 D0	049B 512 049B 513 04A1 514 04A3 515 04AE 516 04B0 517 04BB 518 04C6 519 050B 520		TSTL BEQL CMPL BEQL MOVL MOVL ERR_EXI	DEST_PIDADR 20\$ SUBJPID, adest_PIDADR 20\$ SUBJPID, EXPV adest_PIDADR, RECV T LONG, < INCORRECT PID RET	: PID RETURNED BY RESUME ? : NO KEEP GOING : YES IS IT THE CORRECT ONE ? : YES CONTINUE : NOLOAD UP EXPECTED AND : RECEIVED VALUES, THEN EXIT
0000011C'EF	00000118'EF 3B	D1 13	050B 520 050B 521 0516 522 0518 523 0523 524 0551 525 0553 526 0553 528 057C 530 057C 530 05AA 532	20\$:	CMPL BEQLU \$SUSPND	CREPID, SUBJPID 30\$ S R NORMAL	: WAS A PROCESS CREATED ? : YES GO WAIT FOR IT TO COMPLETE : NO OFFSET SUBJECT RESUME WITH SUSPND : CHECK FOR NORMAL RETURN
	57	-11	0551 525 0553 526	30\$:	BRE	VERIFYX	: AND GO EXIT
			0553 527 0553 528 0570 529	164		CHAN=MBXCHAN, FUNC=#10\$ P1=MBXBUFF+8, P2=MBXBUFF	; WAIT FOR CREATED PROCESS TO SEND MAIL
		05	057C 530 05AA 531 05AA 532	VERIFYX	:	K NORMAL	; CHECK FOR NORMAL STATUS CODE
		05	UDAA 332		RSB		; RETURN TO CALLER

VC

```
SATS SYSTEM SERVICE TESTS $RESUME (SUCC 16-SEP-1984 00:52:14 VAX/VMS Macro V04-00 VFY_CLEANUP 5-SEP-1984 04:30:57 [UETPSY.SRC]SATSSS38.MAR;1
```

.SBTTL VFY_CLEANUP : FUNCTIONAL DESCRIPTION:

VFY CLEANUP EXECUTES SYSTEM SERVICES TO UNDO THE EFFECT OF THOSE ISSUED IN THE VERIFY SUBROUTINE. VFY CLEANUP MUST ASSUME THAT VERIFY MAY NOT HAVE EXECUTED IN ITS ENTIRETY (IF AN ERROR IS FOUND). ALSO, VFY CLEANUP MAY ISSUE SS CHECK OR ERREXIT ONLY AFTER PERFORMING ALL OF ITS CLEANUP OPERATIONS; THIS IS REQUIRED IN THE EVENT THAT VFY CLEANUP IS CALLED DURING ERROR PROCESSING, WHEN PERFORMING THE REQUIRED CLEANUP IS MORE IMPORTANT THAN POSSIBLY DISCOVERING A SECOND ERROR.

CALLING SEQUENCE:

05AB 05AB

BSBW VFY_CLEANUP

INPUT PARAMETERS:

NONE

IMPLICIT INPUTS:

R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES

FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.

FOR X = 1,2,3,4,5:

CONDX E - ADDRESS OF TABLE OF DATA VALUES FOR CONDX

TABLE. IF THE CONTEXT OF TABLE X IS A SYSTEM SERVICE

ARGUMENT, THE ARGUMENT NAME MAY BE USED AS A SYNONYM

FOR CONDX_E.

OUTPUT PARAMETERS:

NONE

IMPLICIT OUTPUTS:

NONE

COMPLETION CODES:

EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.

SIDE EFFECTS:

SS_CHECK AND ERR_EXIT MACROS CAUSE PREMATURE EXIT (VIA RSB) IF ERROR ENCOUNTERED.

00000118'EF 0000011C'EF 12 585 586 587 588 589 VFY_CLEANUP:: CMPL CREPID, SUBJPID BNEQU VFY CLEANUPX \$DELPRC_S SUBJPID VFY_CLEANUPX:

; WAS A PROCESS CREATED FOR THIS TEST CASE ?

NO -- JUST EXIT

SATS SYSTEM SERVICE TESTS \$RESUME (SUCC 16-SEP-1984 00:52:14 VAX/VMS Macro V04-00 Page 15 5-SEP-1984 04:30:57 [UETPSY.SRC]SATSSS38.MAR;1 (1) RSB .END

05 05C7 591 05C8 592

; RETURN TO CALLER

SI

SATSSS38 Symbol table	SATS SYSTEM SERVICE TESTS \$RESUME (SUCC 16-SEP-1984 00:52:14 VAX/VMS Macro V04-00 Page 5-SEP-1984 04:30:57 [UETPSY.SRC]SATSSS38.MAR;1	16
\$\$\$\$\$\$\$\$\$\$CHARS \$\$\$CHARS2 \$\$\$CHARS3 \$\$\$CHARS4 \$\$\$CHARS5 \$\$\$CHARS6 \$\$\$CHARS6 \$\$\$CHARS6 \$\$\$\$CHARS6 6 \$\$\$\$\$CHARS6 \$\$\$\$\$CHARS6 \$\$\$\$\$CHARS6 \$	= 00000020	

```
S
```

```
SATS SYSTEM SERVICE TESTS SRESUME (SUCC 16-SEP-1984 00:52:14 5-SEP-1984 04:30:57
 SATSSS38
                                                                                                                                                     VAX/VMS Macro V04-00
[UETPSY.SRC]SATSSS38.MAR;1
Symbol table
                                                                                                                                                                                                            (1)
SYSSQIOW
SYSSRESUME
SYSSSETPRN
SYSSSETPRV
SYSSSUSPND
SYSSWAKE
                                                     *******
                                                                            *******
                                                                    GX
                                                     *******
                                                                    GX
                                                     *******
                                                                    GX
                                                     *******
                                                                    GX
                                                     *******
                                                                    GX
SYSSWAKE
TESTNUM
TEST_MOD_NAME
TEST_MOD_NAME_D
TEST_MOD_SUCC
TMD_ADDR
TM_CLEANUP
TM_SETUP
VERIFY
                                                     *******
                                                    00000000 RG
                                                     ******
                                                     *******
                                                    00000220 RG
000000000 RG
0000036D RG
000005AA R
000005AB RG
000005C7 R
000000002 G
VERIFYX
VFY_CLEANUPX
WORD
WRITE MSG2
ZEROPID
                                                                            04
                                                    *******
                                                    00000110 R
                                                                               Psect synopsis
PSECT name
                                                   Allocation
                                                                                  PSECT No.
                                                                                                   Attributes
                                                  00000000
00000000
000000A7
00000260
000005C8
                                                                       0.)
     ABS
                                                                                            0.)
                                                                                                                          CON
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                                                                                                                                            LCL NOSHR NOEXE NORD
                                                                                                                                                                               NOWRT NOVEC BYTE
                                                                                  01 02 04
$ABS$
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                                                                                                                USR
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RWDATA
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                                                                                                                          CON
                                                                                                                                   REL
                                                                                                                                            LCL NOSHR NOEXE
                                                                                                                                                                         RD
                                                                                                                                                                                  WRT NOVEC LONG
SATSSS38
                                                                                                    NOPIC
                                                                                                                                            LCL NOSHR
                                                                                                                                                               EXE
                                                                                                                                                                         RD
                                                                                                                                                                                  WRT NOVEC BYTE
                                                                          Performance indicators
Phase
                                        Page faults
                                                               CPU Time
                                                                                       Elapsed Time
 -----
                                                               00:00:00.10
00:00:00.68
00:00:09.01
00:00:00.79
00:00:02.15
00:00:00.11
00:00:00.03
00:00:00.03
                                                                                      00:00:00.32
00:00:02.98
00:00:18.16
00:00:00.93
00:00:02.61
00:00:00.12
00:00:00.03
00:00:00.03
Initialization
Command processing
Pass 1
                                                   300
Symbol table sort
Pass 2
Symbol table output
                                                   128
Psect synopsis output
Cross-reference output
Assembler run totals
```

The working set limit was 1500 pages.
46932 bytes (92 pages) of virtual memory were used to buffer the intermediate code.
There were 30 pages of symbol table space allocated to hold 489 non-local and 44 local symbols.
592 source lines were read in Pass 1, producing 24 object records in Pass 2.
48 pages of virtual memory were used to define 38 macros.

SATSSS38 VAX-11 Macro Run Statistics

SATS SYSTEM SERVICE TESTS \$RESUME (SUCC 16-SEP-1984 00:52:14 VAX/VMS Macro V04-00 5-SEP-1984 04:30:57 [UETPSY.SRC]SATSSS38.MAR;1

Macro library statistics !

Macro library name

_\$255\$DUA28:[SHRLIB]UETP.MLB;1 _\$255\$DUA28:[SYS.OBJ]LIB.MLB;1 _\$255\$DUA28:[SYSLIB]STARLET.MLB;2 TOTALS (all libraries)

Macros defined

896 GETS were required to define 35 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:SATSSS38/OBJ=OBJ\$:SATSSS38 MSRC\$:SATSSS38/UPDATE=(ENH\$:SATSSS38)+EXECML\$/LIB+SHRLIB\$:UETP/LIB

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